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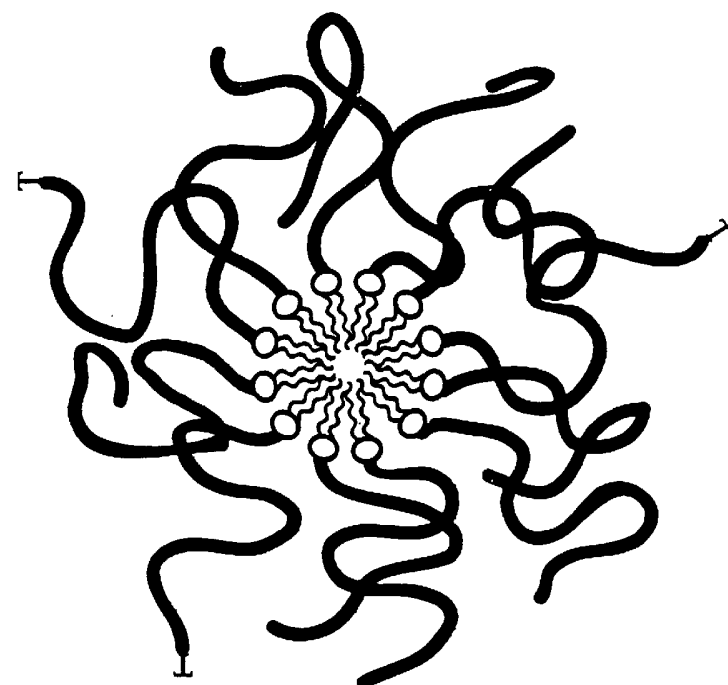
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(54) Title: NOVEL TARGETED DELIVERY SYSTEM FOR BIOACTIVE AGENTS



DPPE PEG 5000  
DPPE PEG 5000 with targeting ligand  
covalently bound to free end of PEG

(57) Abstract: Novel targeted delivery systems for bioactive agents. In preferred form, the delivery systems comprise, in combination with an effective amount of a bioactive agent, a targeted matrix comprising a polymer and a targeting ligand. Preferably, the targeting ligand is covalently associated with the polymer and the bioactive agent is associated non-covalently with the polymer. Also in preferred embodiments, the bioactive agent is substantially homogeneously dispersed throughout the matrix. The compositions are particularly suitable as delivery vehicles with bioactive agents that have limited water solubility.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/22753

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : A61K 9/14, 127

US CL : 424/486, 450, 489

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/486, 450, 489

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,837,221 A (BERNSTEIN et al) 17, November 1998, abstract, col 13, lines 5-60. claims 1, 12.	1-4 5-100
Y	US 5,916,596 A (DESAI et al) 29 June 1999, abstract, col 5-col 6, col 8, col 26-28.	1-100
Y	US 5,686,110 A (GREENWALD et al) 11 November 1997, abstract, col 3, lines 49-col 6, line 64, col 10.	1-100
Y	US 6,232,287 A (RUSLAHTI et al) 15 May 2001, abstract, col 3, lines 36-67, col 31-37	1-100

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**INTERNATIONAL SEARCH REPORT**

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**Continuation of B. FIELDS SEARCHED Item 3:**  
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matrix, polymer, targeting agent, polyethylene glycol